

WE CLAIM:

1. Thermostable glazing comprising a substantially transparent substrate with a substantially transparent, thermostable solar coating on a surface of the substrate, the substantially transparent, thermostable solar coating consisting essentially of copper oxide.

2. The thermostable glazing according to claim 1, wherein the substantially transparent, thermostable solar coating of copper oxide has a substantially uniform thickness from 150Å to 2000Å.

3. The thermostable glazing according to claim 1 wherein the substantially transparent, thermostable solar coating imparts coloration to the coated article.

4. The thermostable glazing according to claim 1 wherein the solar coating lies directly on the surface of the substrate.

5. The thermostable glazing according to claim 1 wherein the substantially transparent substrate is substantially planar glass.

6. The thermostable glazing according to claim 5 wherein the substantially transparent substrate is a pane of a glass selected from the group consisting of soda-lime-silica glass, borosilicate glass, aluminosilicate glass, vycor, fused silica and vitreous silica.

7. The thermostable glazing according to claim 6, wherein the glass is soda-lime-silica glass.

Sub D1 { 1 8. The thermostable glazing according to claim 7, wherein the glass is a body colored
2 glass.

Sub D2 { 1 9. The thermostable glazing according to claim 8, wherein said substrate is curvo planar.

Sub D1 { 1 10. The thermostable glazing according to claim 1, further comprising a coloration
2 coating layer.

Sub C1 { 1 11. The thermostable glazing according to claim 10, wherein the coloration coating layer
2 is formed of SnO₂, WO₃, ZnO, Zinc stanate, Bi₂O₃, or Si₃N₄

Sub B1 { 1 12. The thermostable glazing according to claim 10, wherein the coloration coating layer
2 forms an integrated coating with the thermostable solar coating.

1 13. The thermostable glazing according to claim 12, wherein the coloration coating layer
2 lies adjacent the thermostable solar coating in the integrated coating.

1 14. The thermostable glazing according to claim 10, wherein the coloration coating layer
2 has a substantially uniform thickness from 200Å to 2000Å.

1 15. A method of manufacturing a thermostable glazing, comprising:
2 A) providing a substantially transparent substrate;
3 B) forming a coated substrate by depositing on a surface of the substantially
4 transparent substrate a substantially transparent thermostable solar coating consisting
5 essentially of CuO_x; and
6 C) heat treating the coated substrate.

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16. The method of manufacturing a thermostable glazing according to claim 15, wherein the substantially transparent substrate is soda-lime-silica glass and the heat treating of step (C) comprises tempering by heating the soda-lime-silica glass to at least 620°C followed by cooling.

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